ALBUQUERQUE — NEW MEXICO

N. E. HEIGHTS INTERCEPTOR SANITARY SEWER — SECTION I

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			STANDARD CONSTRUCTION SIGNS & BARRICADES

All pipe under 54" prorated @ $3.1167

CITY OF ALBUQUERQUE

APPROVED [illegible] DATE: [illegible] 1961

AS CONSTRUCTED

07 035 0161 02 05

W. F. TURNEY
AND ASSOCIATES
CONSULTING ENGINEERS
SANTA FE NEW MEXICO

PROJECT NO. 60-3

SHEET 1 OF 14

PROJECT LOCATION

N

CENTRAL AVE.

CITY OF ALBUQUERQUE

CAMBRIDGE

HIGHLAND

UNIVERSITY

STADIUM

PRINCETON

DALE

NE HEIGHTS INTERCEPTOR SANITARY SEWER
SECTION I

T. 10 N.
T. 9 N.

KIRTLAND AIR FORCE BASE

RIO GRANDE

SOUTH SIDE SEWAGE TREATMENT PLANT

Atchison, Topeka & Santa Fe Ry.

Isleta Road

Isleta Diversion Dam

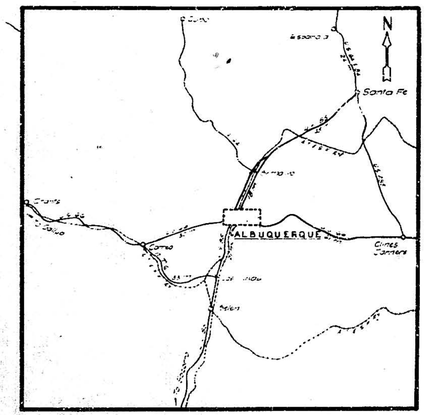
Rock Range Station

LOCATION MAP

0 1 MILE

VICINITY MAP

SCALE: 1" = 22 MILES



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W. F. TURNEY AND ASSOCIATES
CONSULTING ENGINEERS
SANTA FE, NEW MEXICO

NO.	REVISION	DATE

O. A. E. DESIGNATES OR APPROVED EQUAL

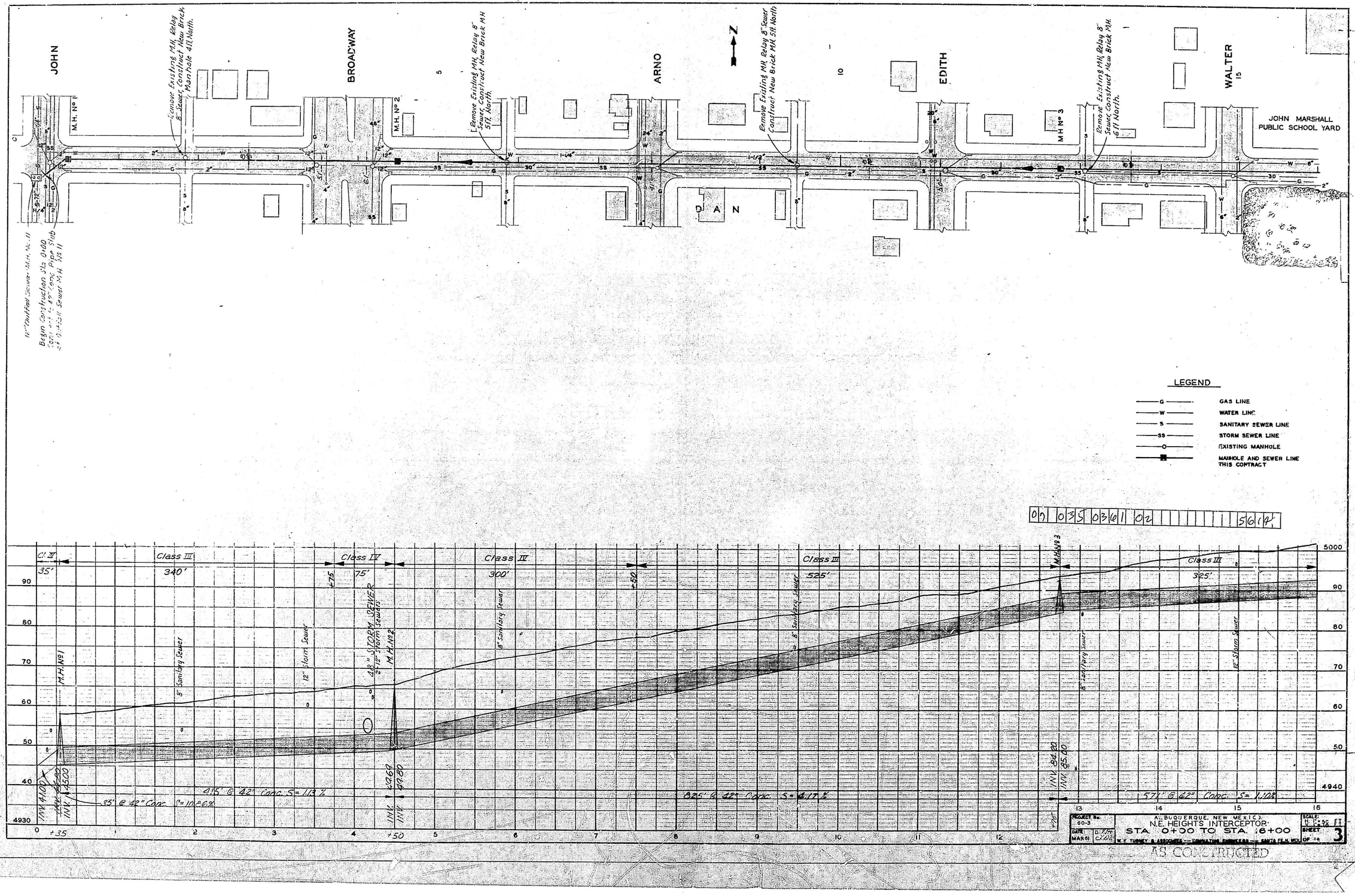
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CHECKED:

ALBUQUERQUE, NEW MEXICO.

NE HEIGHTS INTERCEPTOR SANITARY SEWER

LOCATION & VICINITY MAP

PROJECT No.	SCALE:	DATE:	SHEET
60-3	1" = 1 MILE	MAR 61	OF 14 2


JOHN
BROADWAY
ARNO
EDITH
WALTER
N
M.H. No 1
M.H. No 2
M.H No 3
Remove Existing MH, Relay 8" Sewer, Construct New Brick MH 4ft North.
Remove Existing MH, Relay 8" Sewer, Construct New Brick MH 5ft. North.
Remove Existing MH, Relay 8" Sewer Construct New Brick MH. 5ft North
Remove Existing MH, Relay 8" Sewer Construct New Brick MH. 6 ft North.
JOHN MARSHALL PUBLIC SCHOOL YARD
to 10" Outfall Sewer M.H. No. 11
Begin Construction Sta 0+00
Set 1-10" long Pipe Stub
St Outfall Sewer M.H. No 11
D A N
LEGEND
G GAS LINE
W WATER LINE
S SANITARY SEWER LINE
SS STORM SEWER LINE
EXISTING MANHOLE
MANHOLE AND SEWER LINE THIS CONTRACT
Class III
Class IV
340'
75'
300'
525'
325'
35'
+75
+50
8" Sanitary Sewer
12" Storm Sewer
42" STORM SEWER
415' @ 42" Conc. S= 1.13 %
35' @ 42" Conc. S=10.28%
825' @ 42" Conc. S= 4.17 %
57' @ 42" Conc. S= 1.10%
INV. 4400
INV. 4500
INV. 4969
INV. 4980
INV. 84.20
INV. 85.00
4930
4940
0 +35 1 2 3 4 +50 5 6 7 8 9 10 11 12 13 14 15 16
ALBUQUERQUE, NEW MEXICO
N.E. HEIGHTS INTERCEPTOR
STA. 0+00 TO STA. 16+00
PROJECT No. 60-3
DATE: MAR 61
SCALE: H. 1"=50 FT. V.
SHEET 3 OF 14
W. K. TURNEY & ASSOCIATES — CONSULTING ENGINEERS — SANTA FE, N. MEX.
AS CONSTRUCTED

HIGH

P.I. STA 29+62.7
Δ = 39°27'24"

MH No 5

Existing 36" Interstate Highway I-25

Survey Line

LOCUST

R/W

MH No 6

See Sheet No. 12

Existing M.H. With 36" Conc. Stub

STATE ROAD 422
FREEWAY AREA

N

East M.H. With 36" Conc. Stub.

P.I. = STA 20+80.8K
EQUATION
22+56.44
21+95 Ahd

See Sheet M for Details of M.H. No 6

C.R. DAVIS CONST. CO.

180'± Of 8" Sewer To Be Relayed and Brick M.H. Rebuilt After 42" Sewer is Installed.

Storm Sewer inlet & gratings

JOHN MARSHALL PUBLIC SCHOOL YARD (27'±)

MH No 4

DAN

END OF PAVEMENT

P.I. = STA 19+46
Δ = 8°04'11" Lt.

07 | 035 | 0216 | 102 | 56 | 4

Class III 246'

Class III 351.7'

Class III 175.8'

Class III 165'

Class III 240'

8" Sanitary Sewer

30" Storm Sewer

M.H. No 4

M.H. No 5

Remove 36" Pipe Stub & Install 48" into M.H.

EXISTING MANHOLE

EXISTING SEWER

EXISTING MANHOLE

M.H. No 6

57 LF 42" Conc. S=1.10%

351.7' @ 42" Conc. S=1.10%

175.8' @ 42" Conc. S=1.10%

406.5' @ 36" Conc. S=1.10%

165' @ 36" Conc. S=1.87%

240' @ 48" Conc. S=1.19%

PROJECT No.	60-3
DATE:	D-2-78
MADE:	C.K.D.

ALBUQUERQUE, NEW MEXICO
N.E. HEIGHTS INTERCEPTOR
STA 16+00 TO STA. 25+00

SCALE: H 1"=50 Ft. V 1"=10 Ft.

SHEET 4 OF 14

W. W. TURNEY & ASSOCIATES — CONSULTING ENGINEERS — SANTA FE, N.M.

AS CONSTRUCTED

STADIUM BLVD.

12" Stub for future use

STA. 27+83 MH No. 7

R/W

P.I. = STA. 27+40 Δ = 90°00' Rt.

P.C. STA. 27+01.59

LOCUST

CONC. 100.0 — 98.60 — R.C. EARTH

P.T. HUB — P.I. HUB

E.T. 1+40.0 REFERENCE

CURVE DATA
Δ = 48°01'05" RT.
D = 7°00'
T = 366.41'
L = 685.55'
R = 818.51'

MH No. 6 (Note:) Refer to Special Structure Sht. No. 14 of Plans

P.I. 23+43 Δ = 90°00'

30' 30'

C.R. DAVIS CONST. CO.

MIN. ACCESS. FENCE

Intersate Highway I-25

U.S. Hwy. 422 R/W

STA. 27+82.82 EQUATION 21+35 Ahd.

HUB - TOP OF BANK — P.C. — P.T. — STEEL RE-BAR

P.T. 34+67.09 REFERENCE

HUB

P.C. STA. 34+01.52

MH No. 8

TERRACE CIRCLE

Install 24" Sewer line and STUB

P.T. STA. 34+67.09

Note: Existing Ground Line and Sewer Location and Design is Subject To Revision From Sta. 23+30 To Sta. 51+00 Due To Extensive Earthwork Now In Progress.

CURVE DATA
Δ = 48°05'55" LT.
D = 7°00'
T = 365.27'
L = 687.12'
R = 818.51'

HUB 25' NORTH OF EDGE OF ROAD.

P.C. & P.I. — SEWER — FORE SIGHT ON P.T. ROAD

HUB ACROSS WASH. — ℄ ST. P.T. 41+68.64 — P.O.C. 39+87.33 REFERENCE

HUB — ℄ STREET — P.T. 41+68.64 REFENCE — HUB

MH No. 9 STA. 39+87.33 — P.O.C. ℄ STREET — P.I. ℄ SEWER

SEWER EQUATION 41+67.17 BK = 41+68.64 AH. P.T. STA. 41+68.64

MH No. 10

3146'

WASH

179.84

181.30

NOTE: Revision Δ on Plan takes place from Sta. 27+40 To Sta. 51+84

PIPE COVER DETAIL

EXISTING GROUND — 20' MIN. — FINISH GROUND — CUT DETAIL

NOTE: M.H. Shafts to be built to future Street Grades Set in Field.

Existing Ground Profile from 28+50 to 33+00 will change Due to Removal of Material Stockpiles

Class III 140' | Class III 741' | Class III 168.4 | Class IV 937' | Class IV 239'

741' @ 48" Conc S = 1.65%

505.5' @ 48" Conc S = 2.31%

239' @ 42" Conc S = 2.98%

Compacted Fill 92% A.S.H.O. Density

Earth Material

CUT — FILL

M.H. No. 7 — INV. of 12" Stub 20.00 — INV. 18.00 — INV. 18.29

INV. of 3" Stub El. 32.45

M.H. No. 8 INV. 33.00

NORTH CURB — NEW PROFILE — WASH — ℄ STREET

NOTE: Revision Δ on profile takes place from Sta. 41+63.5 to Sta. 44

Revised 10/20/61

AS CONSTRUCTED

PROJECT No. 60-3

ALBUQUERQUE, NEW MEXICO.
N.E. HEIGHTS INTERCEPTOR
STA. 26+00 TO STA. 42+00

SCALE: H 1"=50' V 1"=10'

DATE: MAR 61 — D. 2572 — C. 2402

SHEET 5 OF 14

W. F. TURNEY & ASSOCIATES — CONSULTING ENGINEERS — SANTA FE, N. MEX.

TERRACE CIRCLE

PT STA 41+68.64

42+27.42

31° 42'

R/W

MH No 11

Construction Line

End of Pavt.

STADIUM

60'

R/W

Existing 21" Sewer To Remain In Service Until 42" Line is Completed To Sta. 27+80 21" Sewer Shall Then Be Intercepted To MH. No 12, @ Inv. 78.05 and Plugged

42"

Temporary Asph. Pavt.

MH No 12

Exist. MH & 21" Line Inv. 79.

UNIVERSITY

Temporary Asph. Pavement

55'

35'

51+84.00 Δh. EQUATION

51+15.85 Bk. Δ

Δ = 88°45' Lt.

NO PAVEMENT REPLACEMENT

MH No 13

42+50

42+27

& 21"

N

10

5100

90

80

70

60

5050

IV

M.H. No 10

M.H. No 11

M.H. No 12

M.H. No 13

class IV

422.6

Class IV

382'

Class III

616'

777'

M.H. 10

42+27.44

TOP NORTH CURB STADIUM BLVD

℄ STREET (20 FT.)

NEW PROFILE

M.H. Shafts to Future Street Grades

66.29

77.32

INV. 53.64

422.6' @ 42" Conc. S = 4.20 %

382' @ 42" Conc. S = 1.75 %

84' @ 36" Conc.

S = 10.72 %

777' @ 36" Conc. S = 1.94 %

INV. 51.88

INV. 52.14

INV. 53.80

INV. 54.00

INV. 54.38

INV. 54.76

INV. 55.15

INV. 55.54

INV. 55.93

INV. 56.32

INV. 56.71

INV. 57.10

INV. 57.49

INV. 57.88

INV. 58.27

INV. 58.66

INV. 59.05

INV. 59.44

INV. 59.83

INV. 60.22

INV. 60.61

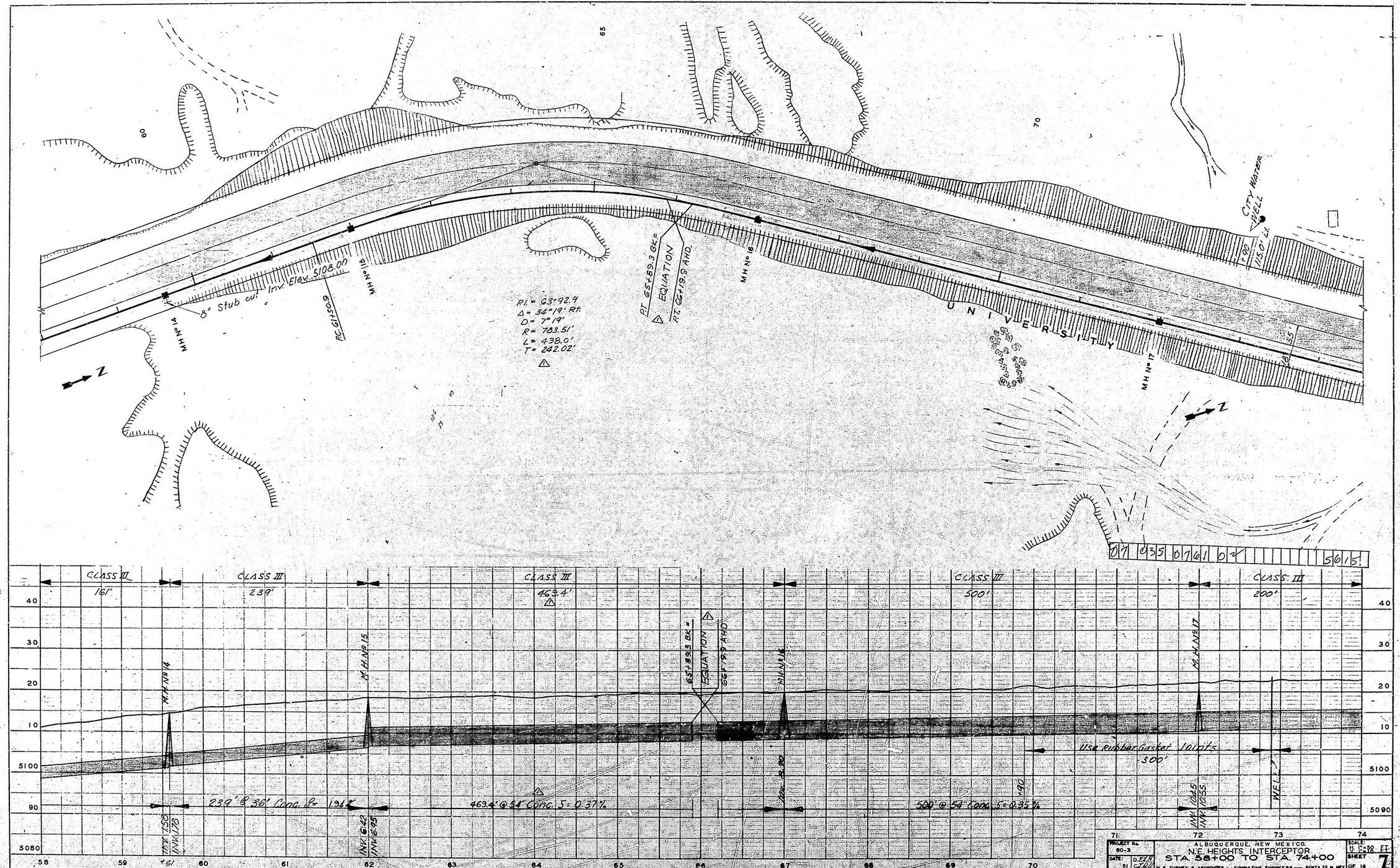
INV. 61.00

INV. 61.39

INV. 61.78

INV. 62.17

INV.



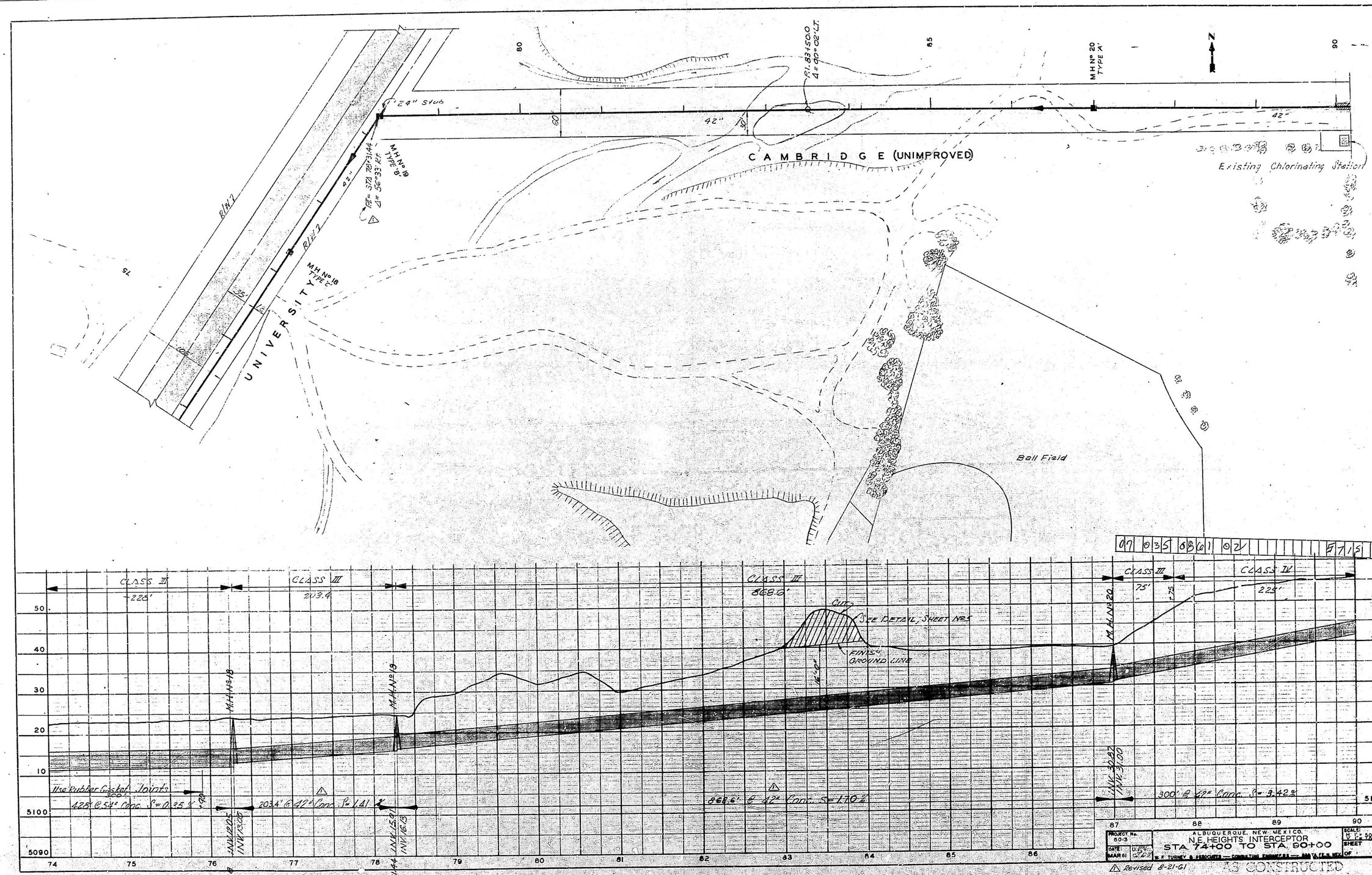
ALBUQUERQUE, NEW MEXICO
N.E. HEIGHTS INTERCEPTOR
STA. 58+00 TO STA. 74+00

PROJECT No. 60-3
DATE: D. 7-7-61, C. 7-20-61
SCALE: H 1"=50 FT., V 1"=10 FT.
SHEET 7 OF 14

W. F. TURNEY & ASSOCIATES — CONSULTING ENGINEERS — SANTA FE, N. MEX.

Revised 8-21-61

AS CONSTRUCTED



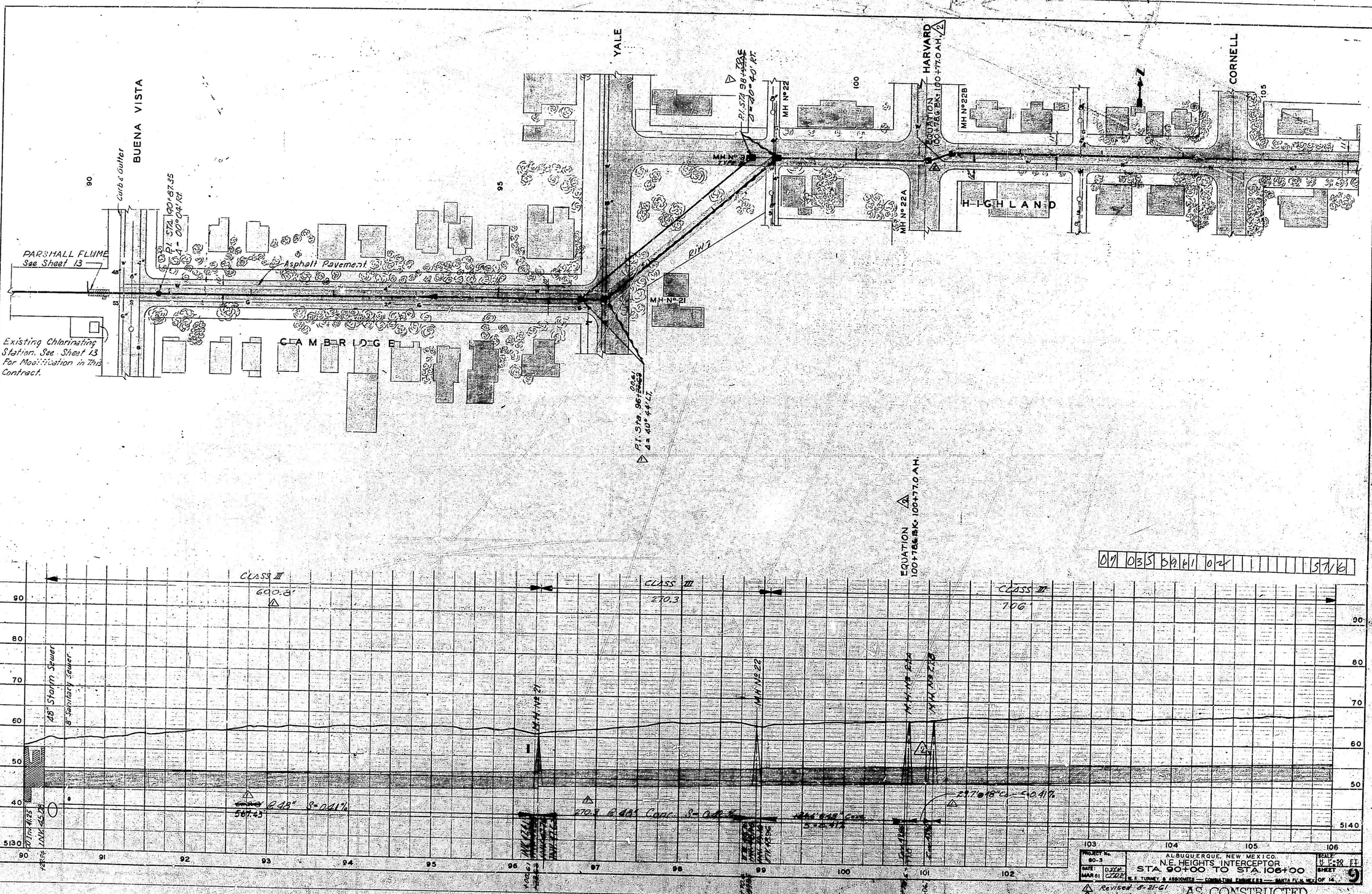
07 035 08861 02

571/5

PROJECT No. 60-3	ALBUQUERQUE, NEW MEXICO	SCALE: H 1" = 50 FT. V 1" = 5 FT.	
DATE: MAR 61	DWN. GCB	NE HEIGHTS INTERCEPTOR STA 74+00 TO STA. 90+00	SHEET 8 OF
	W. F. TURNEY & ASSOCIATES — CONSULTING ENGINEERS — SAN M. F. N. MEX.		

Revised 8-21-61

AS CONSTRUCTED

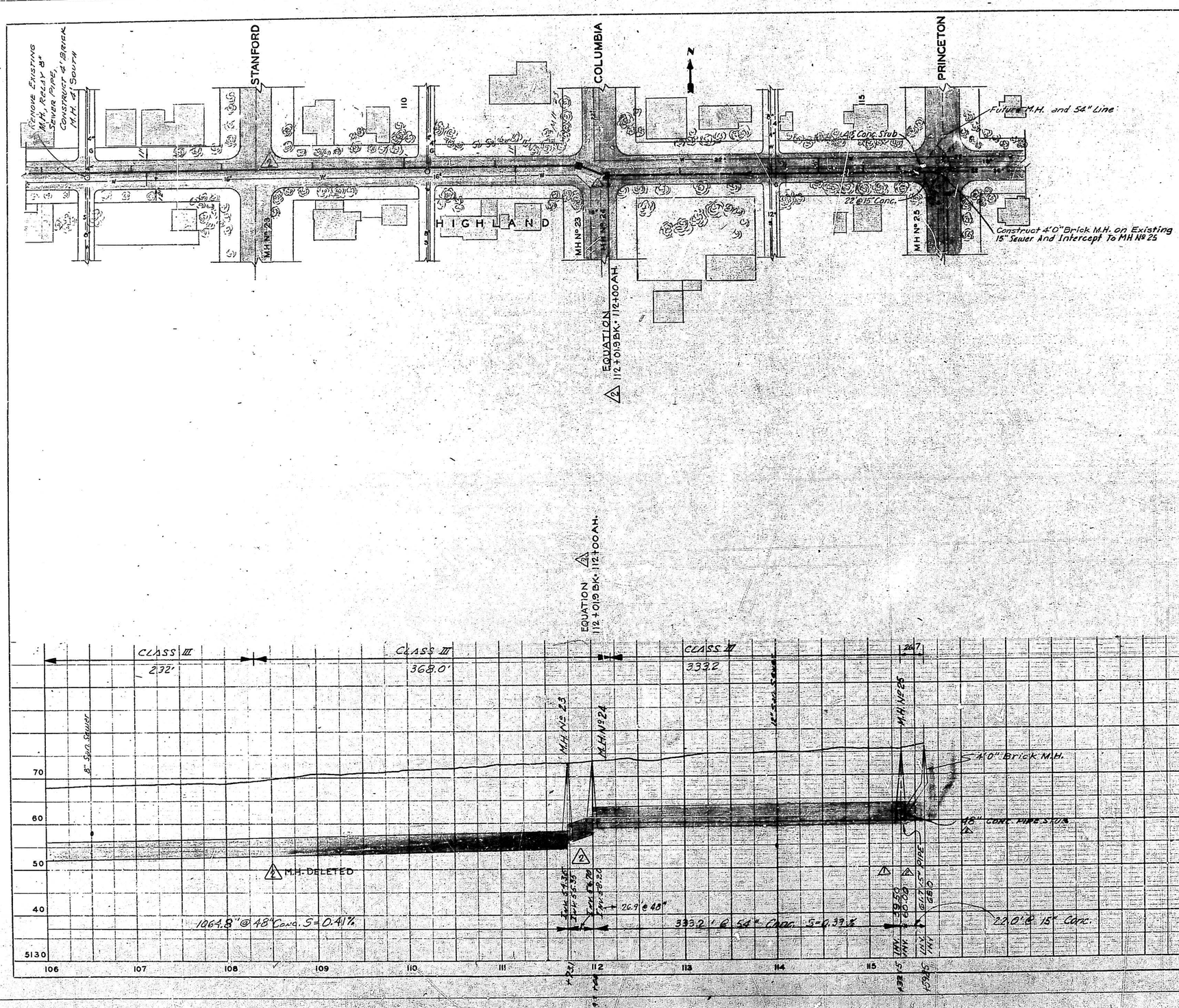


01 03 35 64 61 01 24 | | | | | | 57 61

PROJECT No. 80-3
DATE: MAR 81
DRAWN CADD
ALBUQUERQUE, NEW MEXICO.
N.E. HEIGHTS INTERCEPTOR
STA 90+00 TO STA 106+00
W. F. TURNEY & ASSOCIATES — CONSULTING ENGINEERS — SANTA FE, N. MEX.
SCALE: H 1"=50' V 1"=5'
SHEET 9 OF 14

Revised 7-21-81
Revised 9-25-81

AS CONSTRUCTED

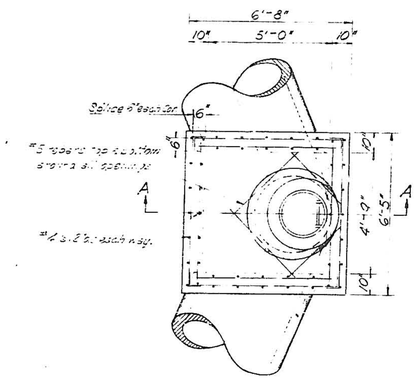


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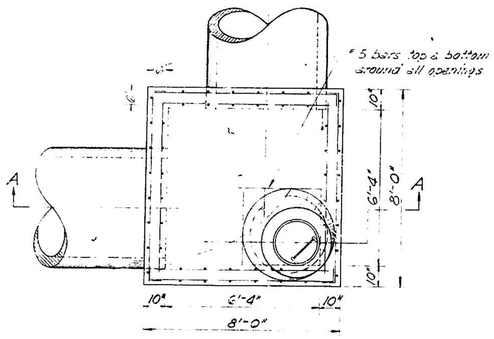
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DATE: MAR 61 D.W.H. 2-22	W. F. TURNEY & ASSOCIATES — CONSULTING ENGINEERS — SANTA FE, N. MEX.	SHEET 10 OF 14

Revised 8-21-61
Revised 9-28-61

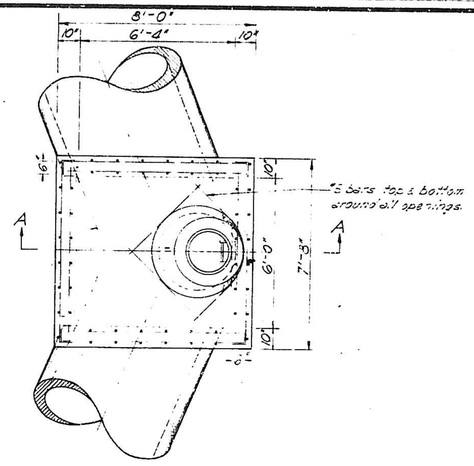
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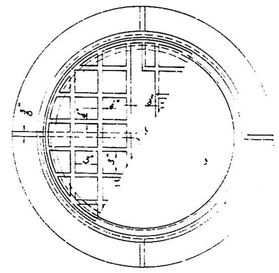
TOP PLAN

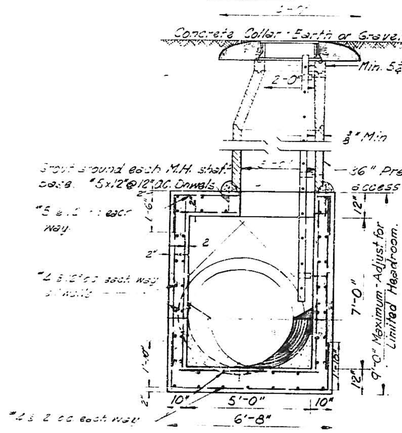


TOP PLAN

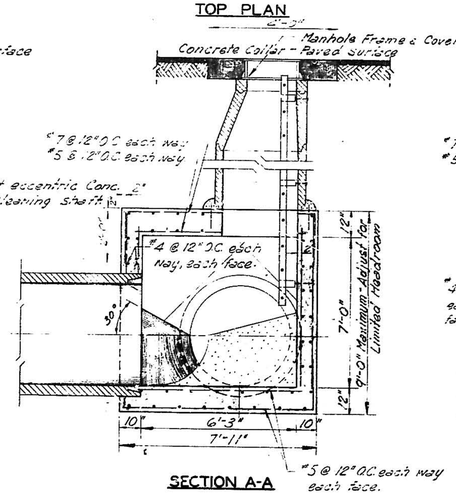


TOP PLAN

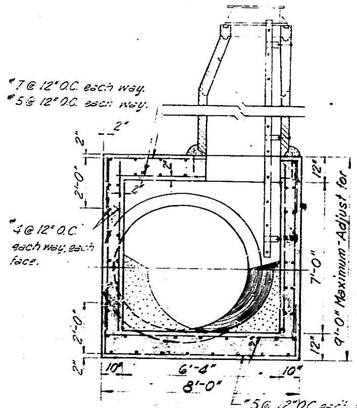




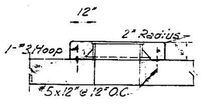
SECTION A-A



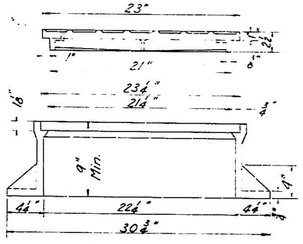
SECTION A-A



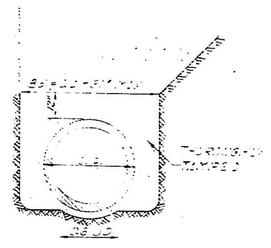
SECTION A-A



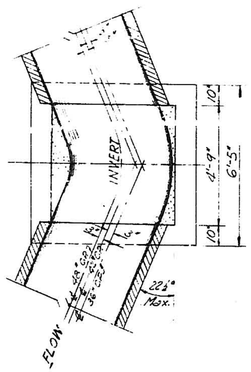
COVER AT SHALLOW MANHOLE



CAST IRON MANHOLE RING AND COVER

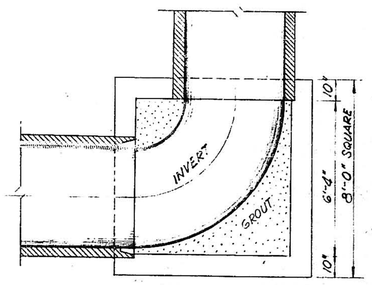


PIPE BEDDING DETAIL



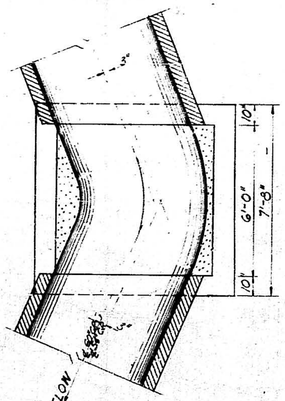
PIPE SIZES 36" to 48" I.D.
Δ = 0° to 45°

FLOOR PLAN - TYPE A



PIPE SIZES 36" to 48" I.D.
Δ = 46° to 90°

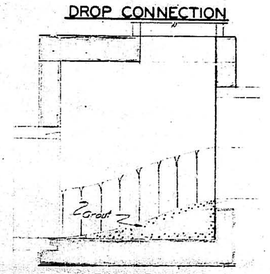
FLOOR PLAN - TYPE B



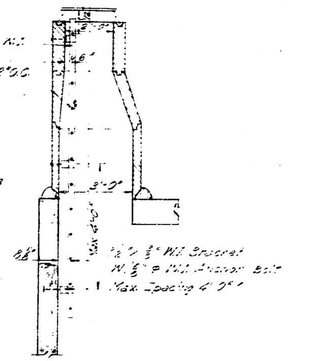
PIPES 54" to 60" I.D.
Δ = 0° to 45°

FOR Δ = 46° to 90° USE 2 M.H.s WITH CONNECTING PIPE, ½ AT EACH M.H.

FLOOR PLAN - TYPE C

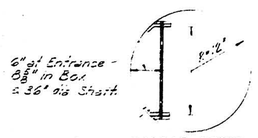


GROUTING



DROP CONNECTION

SECTION



LADDER DETAIL
PLAN

W. F. TURNEY AND ASSOCIATES
CONSULTING ENGINEERS
SANTA FE, NEW MEXICO

BY	REVISION	DATE

O.A.E. DESIGNATES OR APPROVED EQUAL

DRAWN: [illegible]
CHECKED: [illegible]

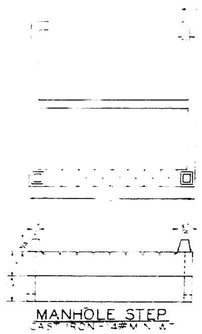
PROJECT No. 60-3
SCALE 3/8" = 1'
DATE MAR 61
SHEET OF 14

ALBUQUERQUE, NEW MEXICO

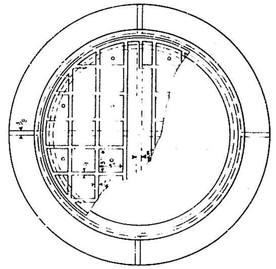
STANDARD MANHOLE DETAILS - CONCRETE PIPE 36"-60"

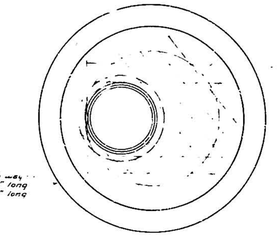
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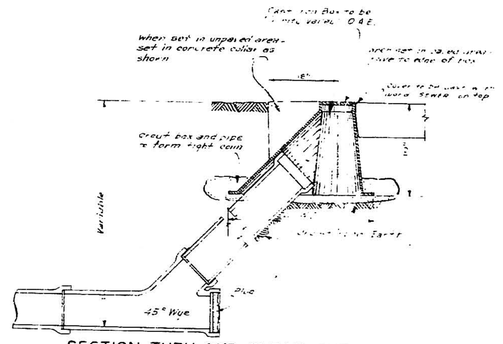
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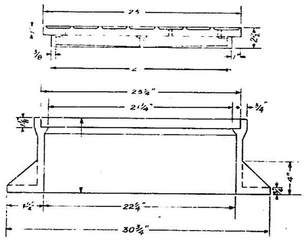
MANHOLE STEP
CAST IRON





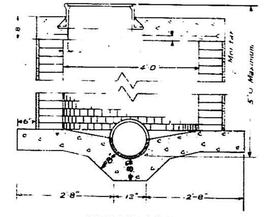


SECTION THRU STD. CLEAN-OUT
CAST IRON COVER

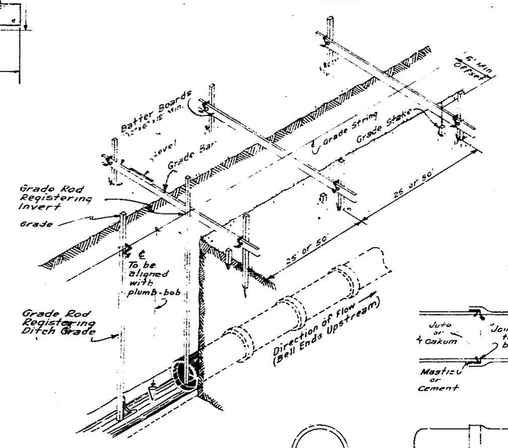


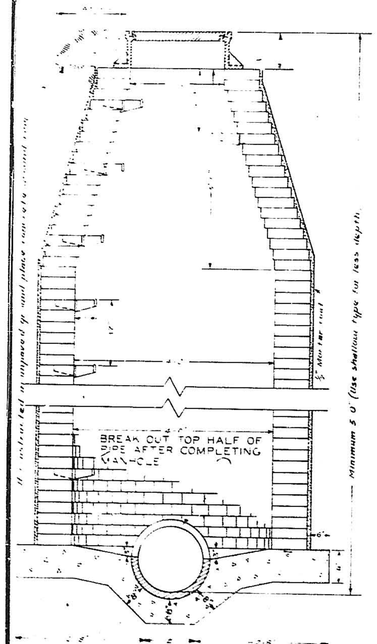
MANHOLE RING & COVER
CAST IRON-

SOLID COVER WITHOUT VENT HOLES.
PAINT INSIDE OF RING & BOTTOM OF COVER & STEPS WITH 2 COATS OF "INERTOL" BLACK PAINT-
ALL COVERS TO HAVE "SEWER" INTEGRALLY CAST ON TOP
Where depth of invert is less than 5'-0" use shallow type with flat concrete top

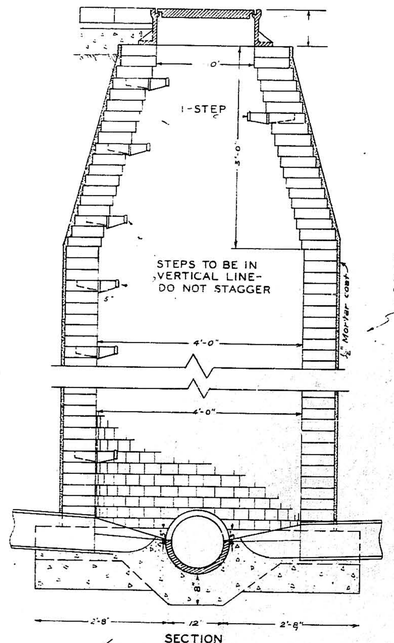


STANDARD
SHALLOW MANHOLE

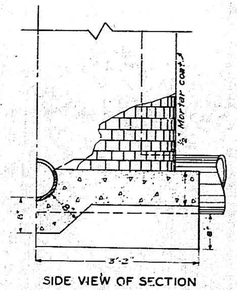




STANDARD THRU MANHOLE

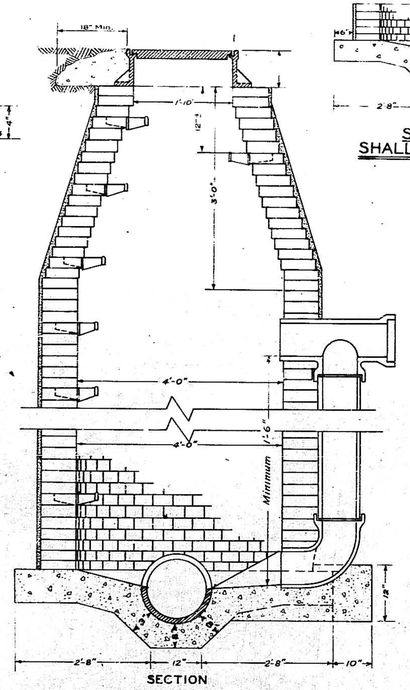


STANDARD JUNCTION MANHOLE



SIDE VIEW OF SECTION

LAY PIPE CONTINUOUSLY THROUGH MANHOLES AND BREAK OUT TOP HALF AFTER COMPLETION OF MANHOLE



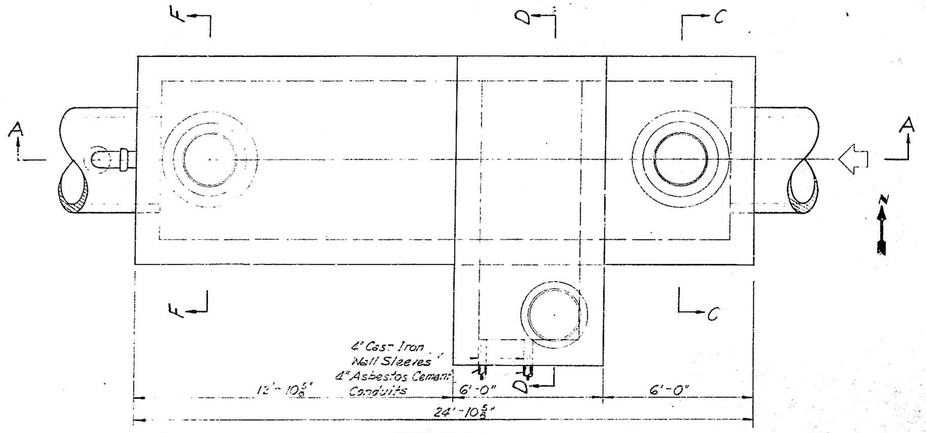
STANDARD DROP MANHOLE

METHOD OF CONSTRUCTION - SEWER LINE

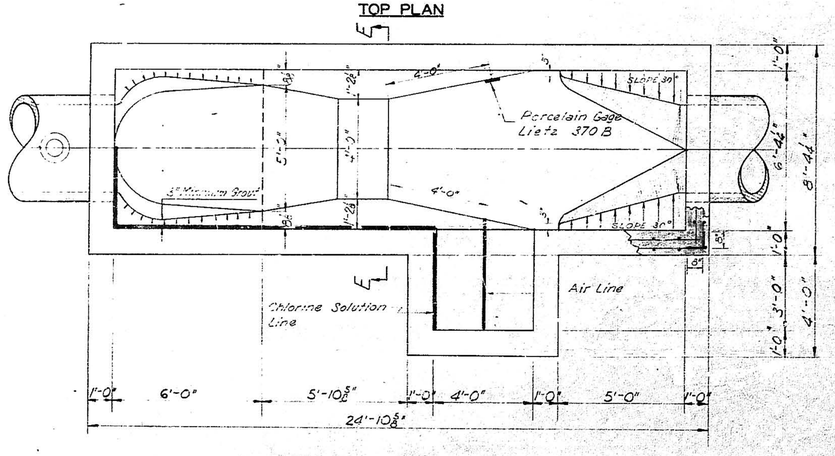
02 035 1261 10

W. F. TURNEY AND ASSOCIATES CONSULTING ENGINEERS SANTA FE, NEW MEXICO	ALBUQUERQUE, NEW MEXICO
BY REVISION DATE	STANDARD MANHOLE DETAILS--BRICK 8"-36"
O.A.E. DESIGNATES OR APPROVED EQUAL	DRAWN: CHECKED:
PROJECT No. 60-3	SCALE: 3/4"=1'
DATE: MAR. '61	SHEET OF 14 12

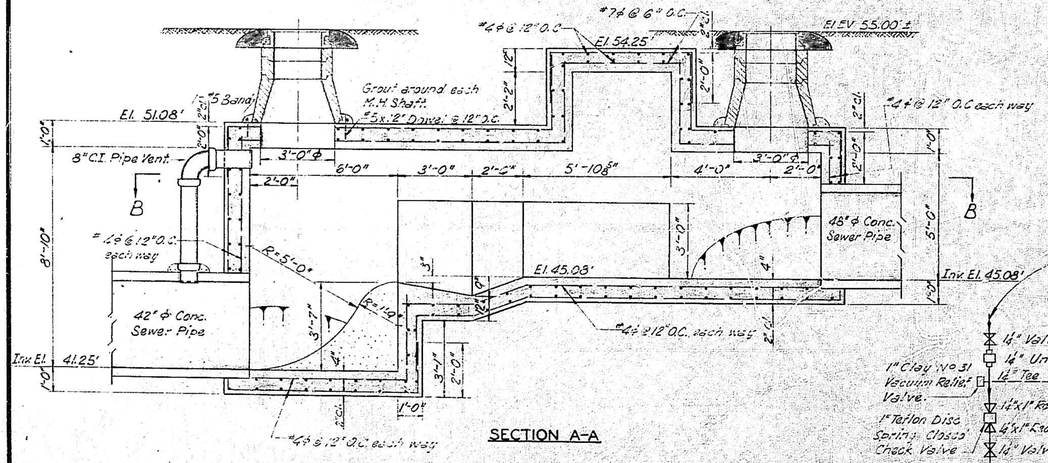
AS CONSTRUCTED



TOP PLAN

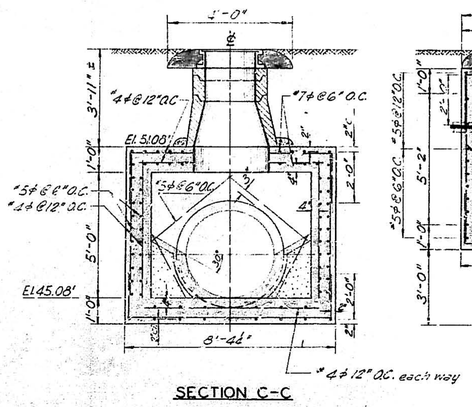


FLOOR PLAN-SECTION B-B

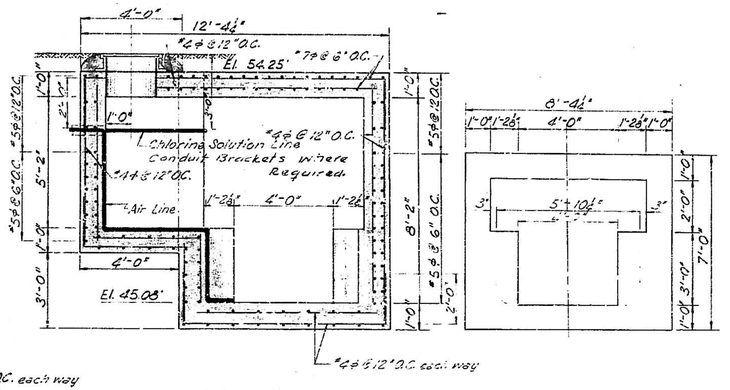


SECTION A-A

PARSHALL FLUME
SCALE 3/8" = 1'

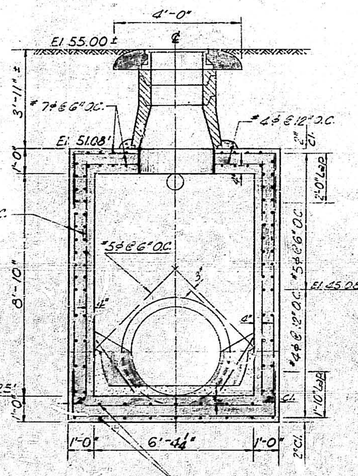


SECTION C-C



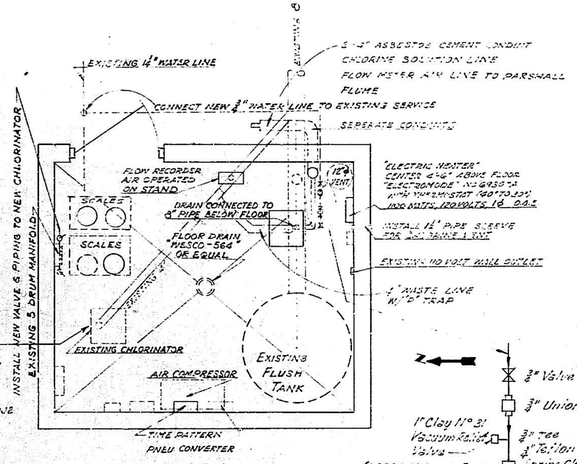
SECTION D-D

SECTION E-E

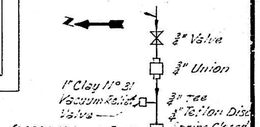


SECTION F-F

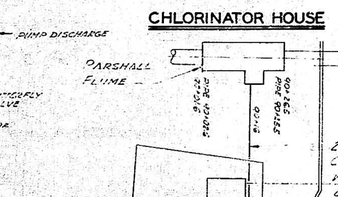
BACKFLOW PREVENTOR



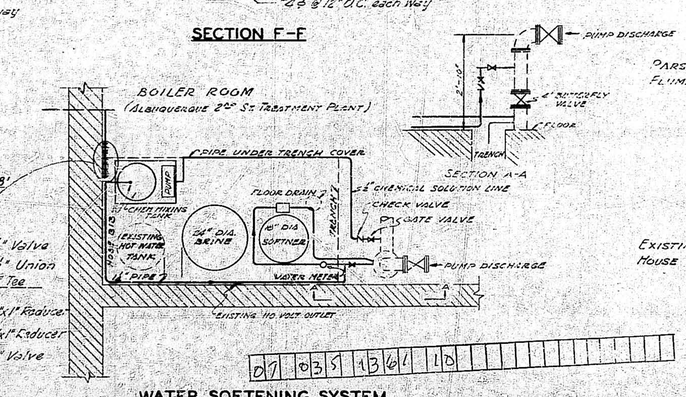
CHLORINATOR HOUSE



BACK FLOW PREVENTOR



PLOT PLAN
SCALE 1"=20'



WATER SOFTENING SYSTEM
SCALE ½" = 1'

07 03 5 13 61 10

2ND ST. SEWAGE TREATMENT PLANT

AS CONSTRUCTED

W. F. TURNEY AND ASSOCIATES
CONSULTING ENGINEERS
SANTA FE, NEW MEXICO

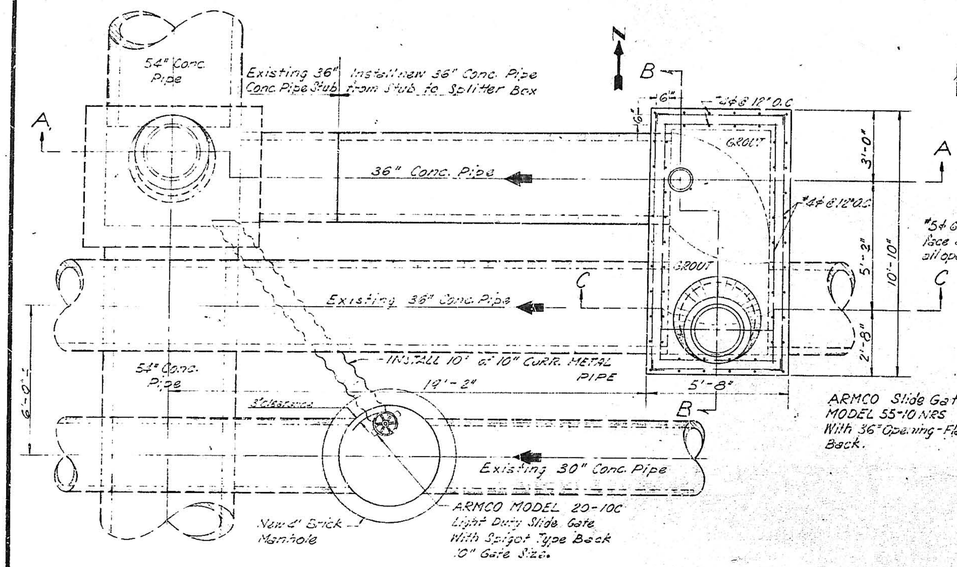
BY	REVISION	DATE

O.A.E. DESIGNATES OR APPROVED EQUAL

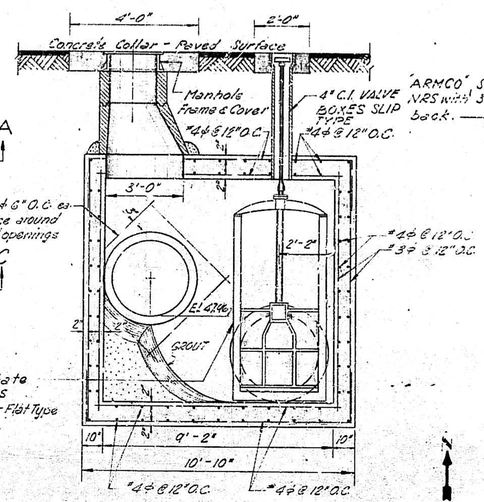
DRAWN: PE/C
CHECKED: JCD

ALBUQUERQUE NEW MEXICO
NE HEIGHTS INTERCEPTOR SANITARY SEWER
METERING & CHLORINATING DETAILS

PROJECT No.	SCALE:	DATE:	SHEET
60-3	AS SHOWN	MAR 61	OF 14 13



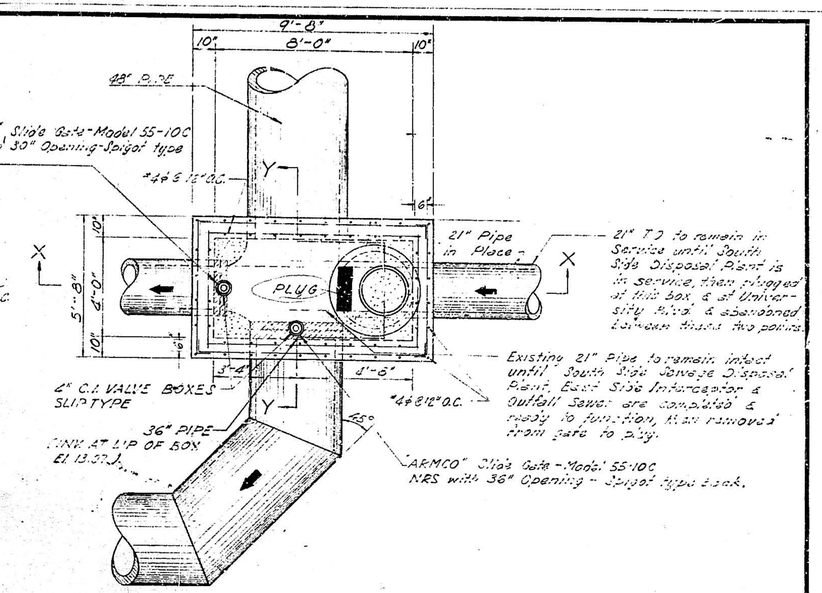
PLAN



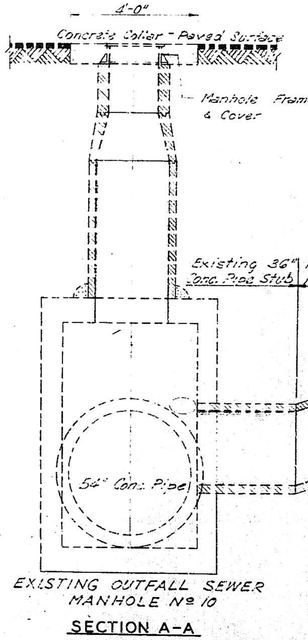
SECTION B-B

Applies to M.H. No 6 Sht. No. 5

ARMCO Slide Gate MODEL 55-10 NRS With 36" Opening - Flat Type Back.

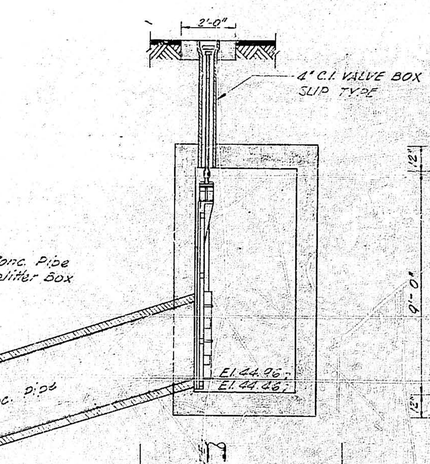


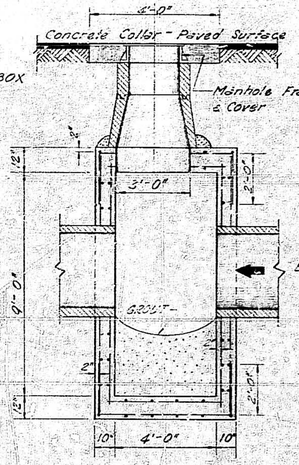
PLAN



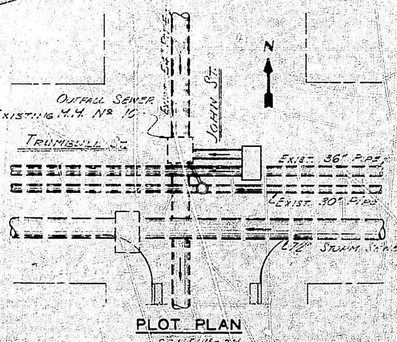
EXISTING OUTFALL SEWER MANHOLE No 10

SECTION A-A





SECTON C-C

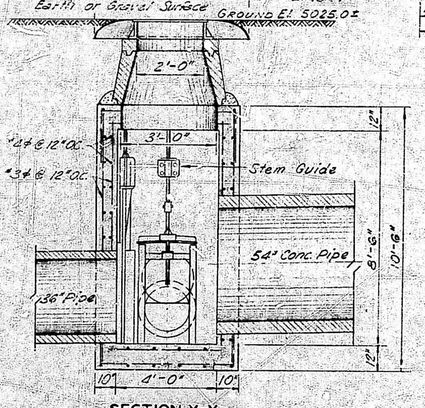


PLOT PLAN

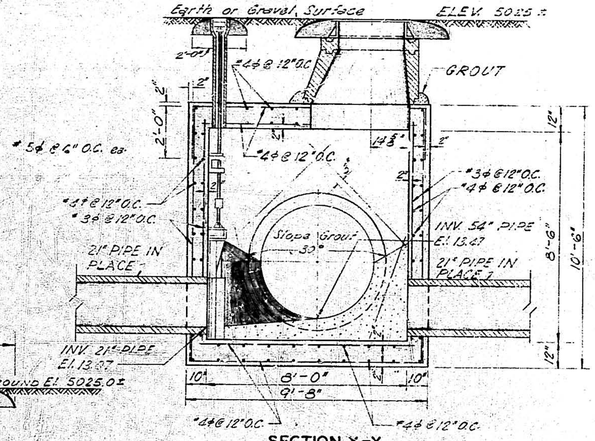
SCALE 1" = 20'

SPECIAL STRUCTURE AT JOHN & TRUMBULL

SCALE 3/8" = 1'



SECTION Y-Y



SECTION X-X

MANHOLE No 6 STA. 23+60

SCALE 3/8" = 1'

NOTE:

1. Paint inside surfaces of all Manholes & Shafts with three coats of "Inertol" Standard Black.
2. Access & Cleanout Manhole Shafts shall be equivalent in Strength to 6000 P.S.I. Reinforced Concrete Pipe.
3. For Manhole ladder installation, see ladder detail on Sheet No 11 STANDARD MANHOLE DETAILS.

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AS CONSTRUCTED

W. F. TURNEY AND ASSOCIATES CONSULTING ENGINEERS SANTA FE, NEW MEXICO	ALBUQUERQUE, NEW MEXICO SPECIAL STRUCTURES
BY REVISION DATE	
O. S. E. DESIGNATES OR APPROVED EQUAL	DRAWN J.A.K. CHECKED J.A.
PROJECT No. 60-3	SCALE: 3/8"=1'
DATE: MAR 61	SHEET 14 OF 14